

U.S. DEPARTMENT OF COMMERCE  
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION  
WEATHER BUREAU  
SILVER SPRING, MD. 20910

October 27, 1967

IN REPLY REFER TO:

Engineering Division

W514

GMD MAINTENANCE NOTES  
(For Electronics Technicians)

4. Lubrication of GMD( ) Equipment (Rewrite)

Hand-operated grease guns have been made available to all GMD-1 stations for use in the lubrication of pedestal AB-159( )/GMD-1. The lubrication points are specified in TM 11-271A, dated August, 1954, Figure 82 through Figure 87 inclusive. In the revised manual, TM 11-6660-1206-20, dated September, 1961, lubrication instructions are given in Figure 44 through Figure 51 inclusive. Lubrication will be performed on a quarterly basis. The grease plugs on the lubrication points of the two elevation trunion bearings are to be replaced by standard Zerk fittings with a 90-degree tip. A fitting with a 45-degree tip is to be used to replace the grease plug on the turntable lower bearing and a fitting with a straight tip is required for the turntable upper bearing. The Zerk fittings are to be purchased locally from an automotive parts supplier.

The GL grease listed in the lubrication guide on the GMD-1( ) system is a special synthetic grease designed for continuous operation at extreme low temperatures, such as encountered at Arctic regions. Texaco "Altemp" grease is to be substituted for the Military GL grease. The temperature range of this grease is from -65° to 175°F.


To replace the PL oil listed in the Military lubrication instructions order 14-O-1 (summer grade) or 14-O-2 (winter grade). The applicable grade will be contingent upon the requirements of the individual stations. This is a light general purpose mineral oil, issued in two ounce bottles. The required lubricants are available from the Central Logistics Supply Center and may be ordered on a stores requisition using the following stock descriptions.

14-G-1 - GREASE, lubricating, temperature range -65 to 175°F, 5-lb  
can; Texaco "Altemp"

14-O-1 - OIL, lubricating, mineral, 2-oz btl, summer grade; Navy  
2110

14-O-2 - OIL, lubricating, mineral, 2-oz btl, winter grade; Navy  
2075

This maintenance note supersedes Service Note No. 282.

  
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